

FMCSA Specifications for Federal Procurements Of Field Portable Computers and Peripherals

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This document provides specifications for FMCSA procurements of portable computer and peripheral hardware for field use. These specifications must be followed for all FMCSA procurements that meet the definitions below.

If you have any questions regarding these specifications, please contact Robert Miller, FMCSA Field Systems Team (FST) Leader, at (202) 366-1429.

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SAFETY INVESTIGATOR LAPTOPS (Updated 10/07/2002)

This specification will be used for procuring investigator laptops for use in conducting Compliance Reviews.

- Panasonic ToughBook 48 CF-48X4KNUQM
 - P4 1.80 GHz CPU w/ SpeedStep
 - Windows 2000 Operating System
 - 256 MB SDRAM
 - 14.1" 1024x768 XGA Display
 - 40 GB harddrive (shock mounted and removable)
 - 1.44MB floppy drive (integrated)
 - Combo DVD-ROM and CD-RW drive (integrated)
 - Touchpad pointer device
 - 56K modem (integrated)
 - 10/100 Ethernet card (integrated)
 - 7.48 lbs
 - 3 year warranty
 - Additional information:
<http://www.panasonic.com/computer/notebook/html/01a6.htm>



- Panasonic Accessories
 - 256 MB RAM memory card (total RAM = 512) CF-WMBA20256
 - Port Replicator CF-VEB481
 - AC Adapter (for Port Replicator) CF-AA1639AM
- Additional Accessories
 - External mouse
 - Atek SuperMini Optical via PS-2 ACC-MS15001

ROADSIDE INSPECTOR LAPTOPS (Updated 10/07/02)

These specifications will be used for procuring inspector laptops for use in conducting driver/vehicle inspections.

- Panasonic ToughBook 72 * CF-72VCJWZQM
 - P4 1.60 GHz CPU w/ SpeedStep
 - Magnesium case, spill resistant keyboard, shock-mounted HDD
 - Windows 2000 Operating System
 - 256 MB SDRAM
 - 30 GB harddrive
 - 1.44 MB floppy drive
 - 56K modem (integrated)
 - 10/100 NIC (integrated)
 - DVD CD-RW Combo Drive, (modular)
 - 13.3" 1024x768 XGA LCD screen
 - Touchpad pointer device
 - 6.4 lbs
 - 3 year warranty
 - Additional information:
<http://www.panasonic.com/computer/notebook/html/01a7.htm>



- Panasonic Accessories
 - Port Replicator CF-VEB481
 - AC Adapter (for Port Replicator) CF-AA1653M
 - 256 MB RAM upgrade (512MB RAM total) CF-WMBA20256
- Additional Accessories
 - External mouse
 - Atek SuperMini Optical via PS-2 ACC-MS15001

* The CF-72 is now available in a 1.8 GHz version. However, the FMCSA specification has not yet been modified due to support issues.

MANAGER LAPTOPS (Updated 10/07/02)

This specification is for a lightweight laptop for use primarily for e-mail, scheduling, address book information, and minimal word processing. Although the specified unit can be used for much more, the trade-off for going with a lightweight unit is a decrease in ease-of-use. If a manager feels he/she will be running CAPRI, ASPEN, CaseRite, or performing a great deal of word processing, we recommend procuring the standard SI laptop.

- Compaq N410c N410CP120X230C252
 - Intel Low-Voltage Mobile Pentium III 1.2 GHz processor with SpeedStep™ technology
 - Weighs only 3.5 lbs
 - 256 MB SDRAM
 - 30 GB harddrive
 - 12.1" 1024x768 XGA TFT display
 - USB 2.0
 - Full size keyboard
 - Three year warranty
 - Integrated 56k modem and 10/100 network interface card
 - Magnesium display enclosure
 - One type II PC Card slot
 - Touchpad pointing device
 - Windows 2000 Operating System
 - Additional information:
[http://www.smb.compaq.com/dstore/ctoBases.asp?ProductLineId=430&FamilyId=1231&LowBaseId=7371&LowPrice=\\$1,625.00&oi=E9CED&BEID=19701&SBLID=](http://www.smb.compaq.com/dstore/ctoBases.asp?ProductLineId=430&FamilyId=1231&LowBaseId=7371&LowPrice=$1,625.00&oi=E9CED&BEID=19701&SBLID=)



COMPAQ

- Compaq N410c accessories (required to make this a complete solution)
 - Mobil expansion unit (MEU) 286255-B25
 - CD-RW 16x 269088-B25
 - 1.44-MB Diskette Drive 226935-B25
 - 256 MB RAM upgrade (512 total) 197898-B25
- Additional Accessories
 - External mouse
 - Atek SuperMini Optical via PS2 ACC-MS15000

PORTABLE PRINTER (Updated 10/07/02)

This specification is to be used for both investigators and inspectors. Portable printers are procured and serviced for investigators and inspectors through the FMCSA Technical Support hotline.

- Canon BJC-85 * Q30-3210-US1
 - Speed: Up to 5 ppm in black / 2 ppm in color
 - Resolution*: 720 x 360 dpi for black
 - Compatibility: Windows® 95, 98, ME, NT 4.0, 2000, & CE 2.10/2.11
(*Note: This unit is not DOS compatible)
 - Wireless printing: Infrared port (fast irDA)
 - Sheet feeder: 30 sheets, integrated
 - 3.1 lbs
 - Additional information:
<http://consumer.usa.canon.com/printers/bjc85/index.html>
 - Estimated price \$299



* A new HP DeskJet 450 portable printer will be evaluated by FMCSA-FST in 2003. Until then, the Canon BJC-85 remains the best portable printer for both investigators and inspectors. For information on the DeskJet 450, please refer to: <http://h10010.www1.hp.com/wwpc/us/en/un/WF05/18972-236251-236267-14438-81913.html>

4-IN-1 MULTI-FUNCTION PRINTER (Updated 01/08/02)

This specification should be used when procuring an all-in-one device for telecommuters. This is a desktop printer, fax, and scanner. The unit specified is not portable. Cables are procured separately. 3-in-1 printers are procured and serviced locally.

- HP OfficeJet d145 C8377A
 - Print/Copy/Scan/Fax
 - Connectivity – USB, optional parallel cable adapter
 - RAM – 32 MB
 - Printer – Color inkjet, up to 19 ppm, 2400x1200 dpi resolution, envelope printing, duplex printing
 - Fax – 3 seconds per page, Color, 300x300 resolution, 100 page memory
 - Scanner – Flatbed, 1200x4800 dpi, 48 bit color
 - Scanner software – HP Director, HP Scan to Web Software, HP Creative Photo Projects, ReadIRIS OCR
 - Copier – Up to 18 pages per minute, digital
 - For additional information:
<http://h10010.www1.hp.com/wwpc/us/en/un/WF06/18972-238444-236260-12019-64982-64993-64994.html>
 - A review of this unit can be found on www.cnet.com
 - Estimated street price \$499



PORTABLE SCANNER (Updated 01/07/03)

This specification will be used when procuring portable scanners for use by investigators and inspectors.

- Visioneer Strobe XP 100 * 90-0493-500
 - Connectivity – USB
 - Resolution – 600x600 dpi
 - Scanner bit depth (color) – 36-bit
 - Power – Via USB, no separate power supply required
 - Weight – 10.6 oz
 - Dimensions – 1.5" x 2" x 11.4"
 - Software includes:
 - Document management – PaperPort Deluxe 8.0
 - OCR – TextBridge Pro 9 OCR
 - Image editor – ArcSoft PhotoImpression by Visioneer
 - OS – Win 98/ME/2000/XP
 - Additional information:
<http://www.visioneer.com/products/sheetfed/xp100/home.html>
 - Estimated price \$199



* FMCSA-FST has replaced the Strobe Pro NT with the Visioneer Strobe XP 100 as the FMCSA scanner specification. The XP 100 is smaller, lighter, has a better scanning resolution, and is powered by the USB port.

DIGITAL CAMERA (Updated 12/26/02)

This specification will be used when procuring digital cameras for use by investigators and inspectors. A digital camera is an excellent tool for documenting violations such as a cracked trailer frame.

- Canon PowerShot S45
 - Resolution – 4 megapixel
 - Zoom – 3x optical
 - Lens – 35-105mm 35mm equivalent, F/2.8-F/4.9
 - Body – All metal
 - Lens cover – Sliding door built into body
 - Flash – Built in
 - Voice annotation
 - Battery – Lithium ion, rechargeable
 - Weight – 9.2 oz for camera body only
 - Connectivity – USB 1.1 (cable included)
 - Storage media – CompactFlash (CF) Type I or II
 - Software includes:
 - Drivers & Utilities
 - Canon PhotoStitch
 - Canon ZoomBrowser EX
 - ArcSoft PhotoImpression
 - ArcSoft VideoImpression
 - Canon ImageBrowser
 - Canon Remote Capture
 - PC Requirements:
 - Operating System – Windows 98, ME, 2000, XP
 - CPU – Pentium 150 or faster
 - RAM – 128 MB for XP, 64 MB for other OS
 - Additional information:
<http://www.powershot.com/powershot2/s45/index.html>
 - Estimated price - \$550



- Recommended accessories for digital camera
 - Lexar 128 MB 12x CompactFlash
 - Canon soft case (PSC-30)

PERSONAL DIGITAL ASSISTANTS (PDA) (Updated 12/26/02)

FMCSA has established two specifications for handheld computer devices. The first is for use by managers solely as a personal information management tool. The unit is small and lightweight, but lacks expandability. The second unit is for use by field personnel in conducting enforcement activities such as driver/vehicle inspections and is referred to as the "Field Activity PDA." This unit is somewhat larger, heavier and expensive, but is much more flexible and expandable.

Manager PDA

- HP IPAQ Pocket PC h1910 * Part # 311324-001
 - Processor – Intel® PXA 250 200 MHz w/ XScale technology
 - Operating system – Pocket PC 2002
 - Weight – 4.2 oz
 - Dimensions – 4.46 x 2.75 x .50 in
 - Expansion slot – SD/MMC slot
 - Display – Color transfective TFT with LED backlight, 64K colors 16-bit, 240 x 320 resolution, 3.5" viewable image size
 - Input type – Pen and touch
 - External input/output ports – Infrared Port (IrDA SIR), Cradle/Synch/Power Port, Audio Jack (2.5 mm)
 - Software – iPAQ Pocket PC Companion CD-ROM, Microsoft® Outlook 2000, Microsoft® ActiveSync 3.5, add-on software and applications, reference guide
 - Additional hardware included – slim removable battery, USB synchronization cable, AC adapter, charging adapter
 - Additional information – <http://h20022.www2.hp.com/busprod/overview/0,12512,series=296097%5Etype=64929%5Ecategory=215383,00.html?lsidebarLayId=106&rsidebarLayId=63>
 - Price approx. \$299



* Please note the h1910 is NOT compatible with standard IPAQ expansion sleeves. Use is limited to personal information management activities such as calendar, contact list, email, etc.

Field Activity PDA

- HP IPAQ Pocket PC h5450 * Part # 264493-001
 - Security – Integrated biometric fingerprint reader
 - Wireless connectivity – integrated WLAN (802.11b), Bluetooth, Consumer IR, and IrDA (115Kbps)
 - Processor – Intel® 400 MHz with XScale technology
 - Memory – 64 MB SDRAM, 48 MB Flash ROM
 - Operating System – Pocket PC 2002
 - Weight – 7.26 oz
 - Dimensions – 3.3 x 0.63 x 5.43" (w/ LAN antenna)
 - Expansion slot – SD/MMC slot
 - Display – Transflective TFT LCD, over 65,000 colors 16-bit, 240 x 320 resolution, 3.8" diagonal viewable image size
 - Input type – Pen and touch
 - Software – Calendar, Contacts, Task, Voice Recorder, Notes, Pocket Word, Pocket Excel, Pocket Internet Explorer, Windows Media Player 8, Calculator, Inbox, Microsoft Reader, File Explorer, MSN Messenger, Terminal Services Client, VPN Client
 - Additional hardware included – slim removable battery, protective cover pack, universal cradle for USB or serial connection, extra stylus, AC adapter, charger adapter
 - Additional information –
<http://h20022.www2.hp.com/busprod/overview/0,12512,series=96475%5Etype=64929%5Ecategory=215383,00.html?lsidebarLayId=106&rsidebarLayId=63>
 - Price approx. \$699



* Please note the h5450 is fully compatible with standard IPAQ expansion sleeves. These sleeves provide additional functionality, including CompactFlash (CF) slots, PC Card slots, 1 or 2 dimensional bar code readers, network interface cards, GPS solutions, PowerPoint presentation solutions, and more.

DC POWER ADAPTERS FOR PANASONIC (Updated 12/27/02)

This specification will be used when procuring a DC power adaptor for Panasonic CF-48 and CF-72 laptop computers. This adapter will operate the laptop and charge the battery in an automobile.

- Lind 80 Watt Adapter for the Pentium 4 - CF48 and CF72 series Computers Model # PA1555-655
 - Weight – 13 oz
 - Input Voltage – 11 to 16 Vdc
 - Input Noise Filter
 - Output Voltage 15.6 Vdc
 - Output Current 5.5 amps (max)
 - Connector MP205 R/A
 - Auto Input Cable 18 Inches
 - Output Cable 36 Inches
 - Internal Overtemperature Shut Down
 - Low Input Voltage Shut Down
 - High Input Voltage Shutdown
 - Automatic Shut Down Reset
 - 3 Year warranty includes coverage of electronics, cables and connectors.
 - Additional information:
http://www.lindelectronics.com/cgi-bin/Store7/PerlShop.cgi!/ORDERID!/aaa/PA1555-655/dbx_gen_detail_product
 - Price appox. \$120



* Please note this adapter can not be used in the airline in-seat power systems. The air in-seat power systems are limited to an output of only 75 Watts.

LAPTOP CARRYING CASE (Updated 01/20/02)

Model unspecified, but should, at minimum, accommodate laptop, printer, and all accessories. Suggested manufacturers, include Tenba and Targus. Models to consider include:

Targus – Top-loading Air Universal	(\$ 99)
Targus – Port 2.1 Easyroller Case	(\$149)
Tenba – Tenba Computer Traveler	(\$170)

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The FMCSA laptop specifications in this document are researched and maintained by Jeff Hall.